## INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2004/001067

Α.	CLASSIFICATION OF SUBJECT MATTER					
Int. Cl. 7:	G06N 1/00, H01L 29/15, G01R 29/24					
According to I	International Patent Classification (IPC) or to be	th national classification and IPC				
	FIELDS SEARCHED					
	mentation searched (classification system followed by	classification symbols)				
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	searched other than minimum documentation to the					
Electronic data DWPI, JAPI	base consulted during the international search (name O Keywords: qubit, quantum; energ, well tomograph, interrogat; cont	of data base and, where practicable, sea; ; coupl, tunnel; weak, adiabatic, rol, adjust, scan, modulat; outpu	afp, slow var, read out,			
GOOGLE	Keywords: adiabatic fast passage; quai	itum ·				
c.	DOCUMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where appropriate, of the relevant passages					
P, X	A. D. Greentree et al., "Charge shelving a charge qubit on the basis of superposition vol. 70, article 041305 Whole document	states", Physical Review B, 16	July 2004,			
P, X	he Internet					
X F	Turther documents are listed in the continua	tion of Box C X See pa	tent family annex			
"A" docume not cons	categories of cited documents:  Int defining the general state of the art which is  Sidered to be of particular relevance  Application or patent but published on or after the  "X"	conflict with the application but cited to underlying the invention	med invention cannot be considered novel			
or which another "O" docume	ent which may throw doubts on priority claim(s)  h is cited to establish the publication date of citation or other special reason (as specified) ent referring to an oral disclosure, use, exhibition  "&"	document of particular relevance; the clainvolve an inventive step when the documents such documents, such combination being	cument of particular relevance; the claimed invention cannot be considered to volve an inventive step when the document is combined with one or more other the documents, such combination being obvious to a person skilled in the art cument member of the same patent family			
or other "P" docume	r means ent published prior to the international filing date or than the priority date claimed		,			
	tual completion of the international search	Date of mailing of the internation	nal search report			
11 October			1 4 OCT 2004			
Name and mail	ling address of the ISA/AU	Authorized officer	•			
PO BOX 200, E-mail address	N PATENT OFFICE WODEN ACT 2606, AUSTRALIA s: pct@ipaustralia.gov.au (02) 6285 3929	MICHAEL HALL Telephone No: (02) 6283 24	MICHAEL HALL Telephone No: (02) 6283 2474			

## **INTERNATIONAL SEARCH REPORT**

International application No.

PCT/AU2004/001067

Cataca	Citation of document with indication where announced of the relevant	Palement to
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	US 5663571 A (UGAJIN) 2 September 1997	
Α	Whole document	1-41
	Patent Abstracts of Japan, JP 09-326485 A (SONY CORP) 16 December 1997	
· <b>A</b>	Whole document	1-41
	Hollenberg et al., "Charge-based quantum computing using single donors in semiconductors" (online), 10 June 2003 (retrieved 11 October 2004). Retrieved from	,
•	the Internet <url: abs="" au.arxiv.org="" cond-mat?0306235="" http:="">.</url:>	
Α	Whole document	1-41
	WO 2004/049252 A2 (D-WAVE SYSTEMS, INC.) 10 June 2004	
P, A	Pages 26-29	1-41
	·	
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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU2004/001067

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member			
US	5663571	JP	7297381		
JP	9326485	NONE			
wo	04049252	NONE			

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

**END OF ANNEX**